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Who's Who in the Interagency Energy/ Environment R&D Program

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This pamphlet includes the names, addresses and telephone numbers of the principal people who run the one hundred million dollar Energy Environment Interagency Program.

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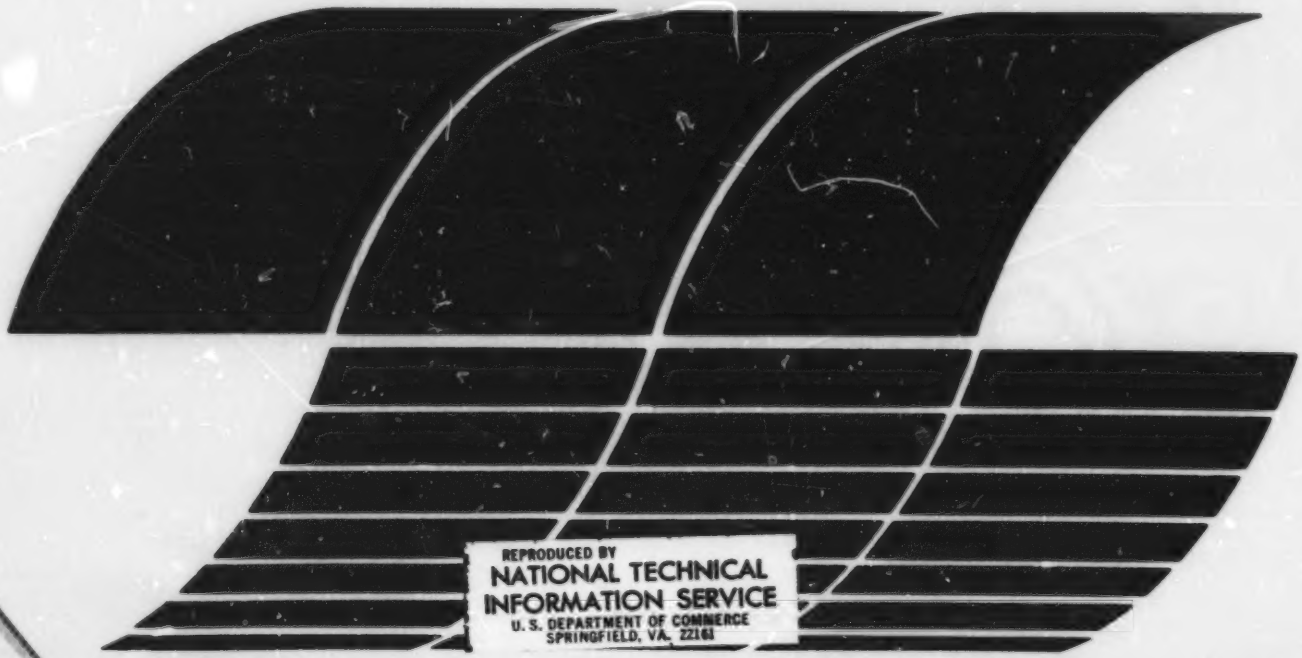

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AGENCY: DEPARTMENT OF INTERIOR

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CHARACTERIZATION, MEASUREMENT AND MONITORING		
WATER MONITORING FIELD INSTRUMENTATION DEVELOPMENT	P. E. GREESON	G. H. DAVIS
ENERGY RELATED SURFACE WATER MONITORING/WESTERN REGION	F. A. KILPATRICK	G. H. DAVIS
ENERGY RELATED GROUNDWATER MONITORING/WESTERN REGION STUDY	F. A. KILPATRICK	G. H. DAVIS
ENERGY RELATED SURFACE AND GROUNDWATER MONITORING STUDIES/ WESTERN REGION	F. A. KILPATRICK	G. H. DAVIS
ENERGY RELATED SURFACE AND GROUNDWATER MONITORING STUDIES/ EASTERN REGION	F. A. KILPATRICK	G. H. DAVIS
ECOLOGICAL EFFECTS		
SUMMARIZE RESULTS OF LABORATORY EXPERIMENTS AND FIELD OBSERVATIONS TO EVALUATE THE PHYSIOLOGICAL, TOXICOLOGICAL AND ECOLOGICAL EFFECTS OF OIL, PRIMARILY ON DUCKS	L. F. STICKEL	A. HIRSCH
DESCRIBE EFFECTIVE GUIDELINES AND METHODOLOGY FOR THE DEVELOPMENT, SYNTHESIS, ANALYSIS AND INTERPRETATION OF COMPLEX ECOLOGICAL AND BIOLOGICAL INFORMATION RELATIVE TO MAJOR COASTAL ECOSYSTEMS	H. TAIT	A. HIRSCH
PREPARE REPORTS ON THREE COASTAL REGIONS SUBJECT TO ENERGY DEVELOPMENT. PLACE EMPHASIS ON VALUE OF RESOURCES SUCH AS FISH, WILDLIFE AND ECOLOGICAL PROCESSES SUBJECT TO MAN-INDUCED ENVIRONMENTAL ALTERNATIVES	H. TAIT	A. HIRSCH
IDENTIFY AND DEMONSTRATE A RAPID, COST-EFFECTIVE AND RELIABLE METHOD OF INVENTORYING AND CHARACTERIZING WILDLIFE HABIT. SPECIAL EMPHASIS BEING PLACED ON REQUIREMENTS FOR FOOD, COVER, BREEDING AND OTHER CRITICAL FACTORS	R. E. STEWART, JR.	A. HIRSCH
DETERMINE WATER QUANTITY REQUIREMENTS OF FISH AND WILDLIFE IN THE UPPER COLORADO AND UPPER MISSOURI RIVER BASINS	R. P. HAYDEN	A. HIRSCH

PROJECT	PROJECT DIRECTOR	AGENCY COORDINATOR
ECOLOGICAL EFFECTS (cont)		
DEVELOP IN-STREAM FLOW METHODOLOGIES TO DETERMINE FLOW REQUIREMENTS FOR BIOLOGICAL/FISHERIES STABILITY IN AREAS AFFECTED BY INCREASED ENERGY DEVELOPMENT--BOTH EAST AND WEST		A. HIRSCH
DEVELOP MECHANISM TO IDENTIFY AND MONITOR THE ACTIVITIES OF ENDANGERED SPECIES IN AREAS UNDER STRESS FROM ENERGY DEVELOPMENT		A. HIRSCH
CONTROL TECHNOLOGY-PHYSICAL/CHEMICAL COAL CLEANING		
COAL WASHING TEST FACILITY	A. DEURBROUCK	T. V. FALKIE
COAL CLEANING TECHNOLOGY DEVELOPMENT	A. DEURBROUCK	T. V. FALKIE
COAL CLEANING WASTE DISPOSAL AND REFUSE	A. DEURBROUCK	T. V. FALKIE

AGENCY: ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION

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CHARACTERIZATION, MEASUREMENT AND MONITORING		
DEVELOPMENT OF ADVANCED AIR MONITORING INSTRUMENTATION AND METHODS	H. R. WASSON	J. L. LIVERMAN
DEVELOPMENT OF AQUEOUS EFFLUENT INSTRUMENTATION AND METHODS FOR ENERGY-RELATED SOURCES	H. R. WASSON	J. L. LIVERMAN
ENERGY-RELATED HEALTH INSTRUMENTATION AND METHODS DEVELOPMENT	H. R. WASSON	J. L. LIVERMAN
ENVIRONMENTAL TRANSPORT PROCESSES		
SPILL PERSISTANCE IN TUNDRA AND IMPACTS IN SUB-SURFACE ARCTIC ECOSYSTEM	C. M. WHITE	J. L. LIVERMAN
FATE AND EFFECTS OF POLLUTANTS IN TERRESTRIAL ECOSYSTEMS IN FOUR CORNERS AREA AND MOJAVE DESERT	F. B. TURNER	J. L. LIVERMAN
DETERMINATION OF THE TRANSPORTATION AND FATE OF FUEL WASTES THROUGH SOIL AT SOLID WASTE SITES		J. L. LIVERMAN
DETERMINATION OF ORGANIC POLLUTANT LOAD AND DYNAMICS OF RESULTING REFINERY WASTES INTO MARINE WATERS	P.W. HARRISON	J. L. LIVERMAN
DETERMINATION OF THE LOAD AND DYNAMICS OF OIL REFINERY WASTES IN LAKE MICHIGAN		J. L. LIVERMAN
EVALUATION OF THE EFFECTS OF COOLING TOWERS ON WEATHER MODIFICATION	D. H. HAMILTON, JR.	J. L. LIVERMAN
ECOLOGICAL EFFECTS		
EFFECTS OF OIL SPILLS ON TUNDRA AND THAW PONDS	I. L. BRISBIN	J. L. LIVERMAN
EFFECTS OF CONSTRUCTION OPERATIONS OF ALASKA PIPELINE ON AQUATIC HABITATS	I. L. BRISBIN	J. L. LIVERMAN
EFFECTS OF TRACE METALS ON CROP AND FOREST ECOSYSTEM	D. S. BALLANTINE	J. L. LIVERMAN
BIOLOGICAL INDICES OF POLLUTANT EFFECTS ON FRESHWATER ECOSYSTEMS	C. C. COUTANT	J. L. LIVERMAN

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ECOLOGICAL EFFECTS (cont)		
LONG-TERM EFFECTS OF HYDROCARBONS ON SELECTED ECOSYSTEMS AND ASSOCIATED ORGANISMS	J. O. BLANTON	J. L. LIVERMAN
SURVEYS ON OIL EXTRACTION AND TRANSPORT AND RELATED EFFECTS ON COASTAL ECOSYSTEMS	J. O. BLANTON	J. L. LIVERMAN
HEALTH EFFECTS		
IDENTIFY THE MOST POTENT CARCINOGENS, MUTAGENS, TERATOGENS, AND PHYSIOLOGICALLY DETRIMENTAL AGENTS IN PROCESS STREAMS, PRODUCTS AND BY-PRODUCTS, AND EFFLUENTS FROM MAJOR FOSSIL FUEL EXTRACTION AND CONVERSION TECHNOLOGIES	G. E. STAPLETON	J. L. LIVERMAN
DEVELOP CYTOLOGICAL AND BIOCHEMICAL INDICATORS TO ESTIMATE TOXICITY FROM OIL AND COAL EXTRACTION, CONVERSION AND UTILIZATION	G. D. DUDA	J. L. LIVERMAN
DETERMINE EFFECTS AND ORGAN DISTRIBUTION OF HAZARDOUS TRACE METALS AND POLYCYCLIC HYDROCARBONS ASSOCIATED WITH COAL AND OIL SHALE EXTRACTION, CONVERSION AND UTILIZATION	M. SCHULMAN	J. L. LIVERMAN
ASSESS THE HAZARDS OF TRACE AND HEAVY METALS OF NON-NUCLEAR ENERGY TECHNOLOGIES USING CHROMOSOME ABBERATION, ISOZYME PATTERNS AND TERATOGENIC EFFECTS ON MAMMALIAN EMBRYOS AS INDICATORS	D. R. PARKER	J. L. LIVERMAN
INTEGRATED ASSESSMENT		
COST/RISK/BENEFIT STUDY OF WESTERN ENERGY	J. S. OLSON	J. L. LIVERMAN
EDP INFORMATION RETRIEVAL SYSTEM	J. S. OLSON	J. L. LIVERMAN
CONTROL TECHNOLOGY-RESOURCE EXTRACTION		
REDUCE ADVERSE ENVIRONMENTAL EFFECTS FROM URANIUM MILL WASTES	R. H. KENNEDY	J. L. LIVERMAN
CONTROL TECHNOLOGY-PHYSICAL/CHEMICAL COAL CLEANING		
CONTROL TECHNOLOGY DEVELOPMENT	R. H. KENNEDY	J. L. LIVERMAN

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CONTROL TECHNOLOGY-DIRECT COMBUSTION		
FLUIDIZED-BED COMBUSTION - CONTROL TECHNOLOGY DEVELOPMENT	R. H. KENNEDY	J. L. LIVERMAN
CONTROL TECHNOLOGY-SYNTHETIC FUELS		
SYNTHETIC FUELS FROM COAL - ENVIRONMENTAL ASSESSMENT	R. H. KENNEDY	J. L. LIVERMAN
SYNTHETIC FUELS FROM COAL - CONTROL TECHNOLOGY DEVELOPMENT	R. H. KENNEDY	J. L. LIVERMAN

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CHARACTERIZATION, MEASUREMENT AND MONITORING		
TECHNICAL SUPPORT FOR WESTERN ENERGY-RELATED ENVIRONMENTAL ASSESSMENT/OVERHEAD MONITORING METHOD DEVELOPMENT	E. L. TILTON	P. S. THOME
ENERGY RELATED REMOTE SENSING INSTRUMENTATION DEVELOPMENT	J. P. MUGLER, JR.	W. E. STONEY

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ENERGY RELATED WATER POLLUTANT ANALYSES INSTRUMENTATION	J. R. MC NESBY	H. E. SORROWS
ENERGY RELATED WATER POLLUTANT STANDARD REFERENCE MATERIALS	J. R. MC NESBY	H. E. SORROWS
ENERGY RELATED AIR POLLUTANT STANDARD REFERENCE MATERIALS	J. R. MC NESBY	H. E. SORROWS
RADIOLOGICAL POLLUTANT QUALITY ASSURANCE	J. R. MC NESBY	H. E. SORROWS

AGENCY: NATIONAL INSTITUTE OF ENVIRONMENTAL HEALTH SCIENCES

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ECOLOGICAL EFFECTS		
INTAKE OF METALS BY MARINE ORGANISMS	L. G. HART	D. P. RALL
COMPARE PHARMACOKINETICS AND TOXICITY IN MANUALS OF METALS CONSUMED IN DIET THROUGH SHELLFISH VS. DRINKING OF H_2O	L. G. HART	D. P. RALL
SYNERGISTIC ACTION OF TEMPERATURE WITH OTHER POLLUTANTS ON MARINE SPECIES (VERTEBRATE AND INVERTEBRATE)	L. G. HART	D. P. RALL
RELATIONSHIP BETWEEN TOXIC FRACTIONS OF CRUDE OIL AND PETROLEUM PRODUCTS AND TUMOR FORMATION IN MARINE SPECIES	L. G. HART	D. P. RALL
HEALTH EFFECTS		
IDENTIFY EFFECTS ON CELLS AND CELL COMPONENTS RESULTING FROM POLLUTANTS FROM ENERGY TECHNOLOGIES	L. G. HART	D. P. RALL
DOSE EFFECT RELATIONSHIP FOR PHYSICAL EFFECTS OF TOXIC AGENTS IN ENERGY TECHNOLOGIES	R. L. DIXON	D. P. RALL
DEVELOP AND TEST MODELS AND CONCEPTS FOR EXTRAPOLATION OF CELLULAR AND ANIMAL DATA TO MAN USING TOXIC AGENTS FROM ENERGY TECHNOLOGIES	D. G. HOEL	D. P. RALL
DETERMINE DOSE EFFECTS OF EXPOSURE TO MUTAGENIC AGENTS ASSOCIATED WITH ENERGY TECHNOLOGIES	F. de SERRES	D. P. RALL
ASSESS THE METABOLISM, FATE AND TOXICOLOGY OF PARTICULATES AND ORGANIC COMPOUNDS ASSOCIATED WITH ENERGY TECHNOLOGIES	L. G. HART	D. P. RALL
DEVELOP PHYSIOLOGICAL INDICATORS OF DAMAGE FROM TOXIC AGENTS	F. de SERRES	D. P. RALL
MECHANISMS OF INCORPORATION, METABOLISM, DEPOSITION AND TURNOVER OF ENERGY RELATED HAZARDOUS MATERIALS	R. L. DIXON	D. P. RALL

AGENCY: NATIONAL INSTITUTE OF OCCUPATIONAL SAFETY AND HEALTH

PROJECT	PROJECT DIRECTOR	AGENCY COORDINATOR
CHARACTERIZATION, MEASUREMENT AND MONITORING		
DEVELOP INSTRUMENTATION AND DEVICES FOR THE MEASUREMENT OF HAZARDOUS AGENTS IN THE OCCUPATIONAL ENVIRONMENT ASSOCIATED WITH ENERGY USAGE	J. LYNCH	J. F. FINKLEA
HEALTH EFFECTS		
ASSESSMENT OF EFFECTS OF OCCUPATIONAL EXPOSURE TO COAL TECHNOLOGIES	B. BRUCKNER	J. F. FINKLEA
CONDUCT ENVIRONMENTAL AND INDUSTRIAL STUDIES OF OCCUPATIONAL EXPOSURES TO INSULATION MATERIALS	J. LEE	J. F. FINKLEA
ASSESS HEALTH EFFECTS OF THE RECIRCULATION OF EXHAUST AIR	R. HUGHES	J. F. FINKLEA

AGENCY: NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

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CHARACTERIZATION, MEASUREMENT AND MONITORING		
ATMOSPHERIC AND METEOROLOGICAL STUDIES OF POLLUTANTS FROM ENERGY PRODUCTION	R. F. PUESCHEL	J. W. TOWNSEND, JR.
METEOROLOGICAL INTERPRETATION AND PREDICTION OF AIR QUALITY IN THE WESTERN UNITED STATES RELATED TO ENERGY ACTIVITIES	L. MACHTA	J. W. TOWNSEND, JR.
LIDAR TECHNIQUES FOR MEASURING PARTICULATE POLLUTANTS FROM ENERGY PRODUCTION AND THEIR TRANSPORT AND DISPERSION PROCESSES	V. E. DERR	J. W. TOWNSEND, JR.
STANDARDIZED AND INTERCALIBRATED TECHNIQUES FOR MARINE MONITORING	R. J. FARLAND	J. W. TOWNSEND, JR.
OCEAN OIL SPILL CONCENTRATION AND TRAJECTORY FORECAST	C. S. BARRIENTOS	J. W. TOWNSEND, JR.
UNDERWAY WATER SAMPLING SYSTEM	M. E. RINGENBACH	J. W. TOWNSEND, JR.
ENVIRONMENTAL TRANSPORT PROCESSES		
TRANSPORT, TRANSFORMATION, FATE AND EFFECTS OF TOXIC METALS, PETROLEUM HYDROCARBONS IN SELECTED MARINE ECOSYSTEMS	D. A. WOLFE	J. W. TOWNSEND, JR.
ECOLOGICAL EFFECTS		
CONDUCT ENVIRONMENTAL ASSESSMENT OF NORTHERN PUGET SOUND AND STRAIT OF JUAN DE FUCA	H. S. HARRIS	J. W. TOWNSEND, JR.
DEVELOP PREDICTIVE CAPABILITY FOR IMPACTS OF PETROLEUM-RELATED ACTIVITIES ON NORTHERN PUGET SOUND AND STRAIT OF JUAN DE FUCA	D. A. WOLFE	J. W. TOWNSEND, JR.
PERFORM A COMPARISON/ANALYSIS OF AN EXISTING MARINE ECOSYSTEM UNDER STRESS OF AN ACTIVE OIL FIELD WITH A SIMILAR ECOSYSTEM IN AN UNDISTURBED AREA	J. W. ANGELOVIC	J. W. TOWNSEND, JR.
DESIGN, ESTABLISH, OPERATE, EVALUATE AND REFINE A DATA MANAGEMENT SYSTEM FOR INTERAGENCY ENERGY-RELATED MARINE AND METEOROLOGICAL PROGRAMS	R. R. REYNOLDS	J. W. TOWNSEND, JR.

AGENCY: TENNESSEE VALLEY AUTHORITY

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CHARACTERIZATION, MEASUREMENT AND MONITORING		
ISOLATION AND IDENTIFICATION OF WATERBORNE POLLUTANTS ASSOCIATED WITH THE POWER INDUSTRY (STEAM ELECTRIC POWER GENERATION)	C. W. HOLLEY	P. A. KRENKEL
DEVELOPMENT AND EVALUATION OF AN INTEGRATED APPROACH TO THE OPTIMIZATION OF NUCLEAR POWER PLANT RADIOLOGICAL SURVEILLANCE PROGRAMS	J. A. OPPOLD	P. A. KRENKEL
SYNOPTIC MONITORING OF SO_2 EFFECTS ON VEGETATION	T. J. MONTGOMERY	P. A. KRENKEL
ENVIRONMENTAL TRANSPORT PROCESSES		
EVALUATION OF MODELS FOR PREDICTING RADIOLOGICAL IMPACT OF GASEOUS RELEASES FROM NUCLEAR POWER PLANTS	J. A. OPPOLD	P. A. KRENKEL
DEVELOPMENT OF SIMULATION MODELS OF THERMAL DISPERSION OF FLUID MECHANICS IN STREAMS AND RESERVOIRS	W. R. NICHOLAS	P. A. KRENKEL
DETERMINATION OF ATMOSPHERIC TRANSPORT AND TRANSFORMATION OF EMISSIONS FROM COAL-FIRED POWER PLANTS	T. J. MONTGOMERY	P. A. KRENKEL
FORMATION RATES OF INORGANICS OF ACIDS FROM STRIP-MINES AND TRANSPORTATION IN WATERWAYS	W. R. NICHOLAS	P. A. KRENKEL
DETERMINATION OF PRESENCE AND ABUNDANCE OF PESTS AND QUANTITATIVE SIGNIFICANCE IN SELECTED STRIP MINES POOLS	W. R. NICHOLAS	P. A. KRENKEL
ECOLOGICAL EFFECTS		
RELATIONSHIPS OF ATMOSPHERIC POLLUTANTS (SO_x + NO_x) FROM COAL FIRED POWER PLANTS ON TERRESTRIAL ECOSYSTEMS	T. J. MONTGOMERY	P. A. KRENKEL
THERMAL EFFECTS FROM MECHANICAL DRAFT COOLING TOWERS ON VEGETABLE AND SOILS	T. J. MONTGOMERY	P. A. KRENKEL
THERMAL IMPACTS ON FRESHWATER, SHELLFISH, INSECTS AND OTHER BIOTA (ORGANISMS)	N. R. NICHOLAS	P. A. KRENKEL

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RESIDUAL FORECASTS	D. H. WALTERS	P. A. KRENKEL
COMPUTER GRAPHICS	H. R. HICKEY	P. A. KRENKEL
CONTROL TECHNOLOGY-FLUE GAS CLEANING		
ENERGY REQUIREMENT CONSERVATION STUDY OF SELECTED PROCESSES FOR REMOVING SO_2 FROM POWER PLANT STACK	A. F. LITTLE	P. A. KRENKEL
DEVELOP COMPARATIVE ECONOMICS OF MAJOR STACK GAS EMISSION CONTROL PROCESSES. DESIGN BRANCH	H. L. FAUCETT	P. A. KRENKEL
BYPRODUCT MARKETING. TEST AND DEMONSTRATION BRANCH	J. I. BUCY	P. A. KRENKEL
DEVELOPMENT OF FLUE GAS DESULFURIZATION TECHNOLOGY - SHAWNEE LIME/LIMESTONE SCRUBBING PROGRAM. DESIGN BRANCH	J. J. SCHULTZ	P. A. KRENKEL
ADVANCED SO_2 REMOVAL PROCESS IMPROVEMENTS. APPLIED RESEARCH BRANCH	J. M. POTTS	P. A. KRENKEL
PROCESSING SLUDGES FROM LIME/LIMESTONE WET SCRUBBING PROCESSES FOR DISPOSAL OR RECYCLE AND STUDYING DISPOSAL OF FBC WASTE PRODUCTS	J. L. CROWE	P. A. KRENKEL
CHARACTERIZATION OF EFFLUENTS FROM COAL FIRED UTILITY BOILERS	H. B. FLORA II	P. A. KRENKEL
FLY ASH CHARACTERIZATION AND DISPOSAL	S. S. RAY	P. A. KRENKEL
CONTROL TECHNOLOGY-THERMAL CONTROL		
ADVANCED WASTE HEAT CONTROL	H. B. FLORA II	P. A. KRENKEL

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